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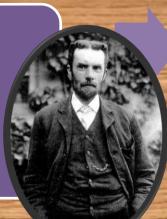


JAMES CLERK MAXWELL (BORN JUNE 13th, 1831): The Man Who Modeled Light

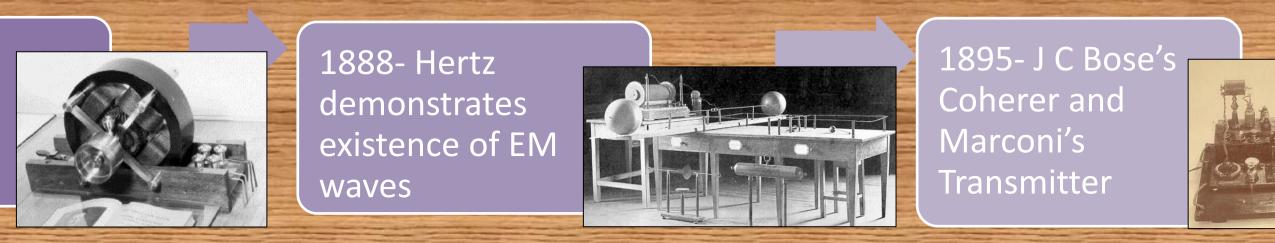
1859: Explained composition of Saturn's rings 1861: Demonstrated first color photograph of a tartan ribbon 1862: Calculated the speed of light as 310,740,000 m/s 1865: Published Maxwell's equations first 1873: Published "A Treatise on Electricity and Magnetism" "From a long view of the history of mankind - seen from, say, ten thousand years from now - there can be little doubt that the most significant event of the 19th century will be judged as Maxwell's discovery of the laws of electrodynamics. - Richard Feynman "One scientific epoch ended and another began with James Clerk Maxwell." - Albert Einstein

1865- Maxwell's Equations Published

1884-Heaviside eformulates Maxwell's Equations



1887- Tesla introduces Alternating Current





First colour photograph of a tartan ribbon, 1861



Fig. 83. The Color-top.

Postcard to Tait

A young James Clerk Maxwell holding his colour wheel (Trinity College Library, Cambridge

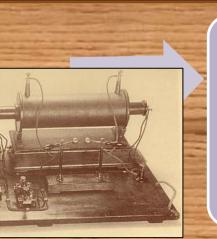
Personal Life

-Born in Edinburgh on 13th of June 1831 -He wed Katherine Mary Dewar in 1858 and never had children -At 25, became professor of Physics at Aberdeen University's Marischal College -Set up Cavendish Laboratory in 1874 -He died on 5th November 1879 and is buried in the village of

Parlon

Did you know? •Maxwell wrote his first scientific paper at the age of 14! •A mountain range on Venus, Maxwell Montes, is named in his honour •Maxwell was a physicist, mathematician and a POET!!

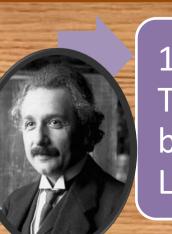
•Maxwell was born at 14 India Street, in Edinburgh



arconi fir transmits radio



1905-Einstein edefines space and me with the Specia heory of Relativity



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1927- Mechanical TV demonstrated y Bell Telephone

And it came

to pass that...

 $\nabla \times E = -$

O = O

 $\mathbf{V} \cdot \mathbf{B} = \mathbf{0}$

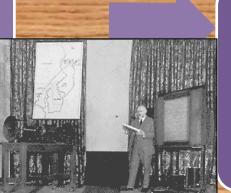
And then there

was LIGHT!

 $\nabla \times \mathbf{M}$

 $\partial \mathbf{B}$

 $\partial \mathbb{D}$



1973- Cooper of Motorola made the first mobile telephone call

